



Order Patent

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(54) SPINDLE SUPPORT MECHANISM

always obtained.

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(57) Abstract:

PURPOSE: To always obtain the stable and high rotation accuracy of spindle by using a coiled spring capable of supplying constant urging force not to be influenced by a temperature change.

CONSTITUTION: A first urging means and a second urging means for urging outer races 3a, 4a of radial ball bearings 3, 4 are provided in direction of the rotating central axis and in the radial direction, respectively. The second urging means comprises a bearing holder 31 brought into contact with the outer periphery of the outer races 3a, 4a of the radial ball bearings 3, 4 and coiled springs 32, 33 for pressing the bearing holder 31 toward the outer races 3a, 4a. In this arrangement, stable and high rotation accuracy of a spindle can be

